

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTGCGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTCATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC TACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC

FIG. 1A

1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA
1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAACTT
2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAAGTGC GCCGCCTACC
2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCG
2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
2801 TGGAGGCCCCG CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
3001 AACATAAAC TATCAAAAGA ACGAAAATC CTTGAGGAGA GGATTAGTGA

FIG. 1B

3051 CTTAACGACA AATCTTGCAG AAGAGGAAGA AAAGGCCAAG AATCTTACCA
3101 AGCTGAAAAA CAAGCATGAA TCTATGATTT CAGAACTGGA AGTGCGGCTA
3151 AAGAAGGAAG AGAAGAGCCG ACAGGAGCTG GAGAAGCTGA AACGGAAGCT
3201 GGAGGGTGAT GCCAGCGACT TCCACGAGCA GATCGCTGAC CTCCAGGCGC
3251 AGATCGCAGA GCTCAAGATG CAGCTGGCCA AGAAGGAGGA GGAGCTGCAG
3301 GCGGCCCTGG CCAGGCTTGA CGATGAAATC GCTCAGAAGA ACAATGCCCT
3351 GAAGAAGATC CGGGAGCTGG AGGGCCACAT CTCAGACCTC CAGGAGGACC
3401 TGGACTCAGA GCGGGCCGCC AGGAACAAGG CTGAAAAGCA GAAGCGAGAC
3451 CTCGGCGAGG AGCTGGAGGC CCTAAAGACA GAGCTGGAAG ACACACTGGA
3501 CAGCACAGCC ACTCAGCAGG AGCTCAGGGC CAAGAGGGAG CAGGAGGTGA
3551 CGGTGCTGAA GAAGGCCCTG GATGAAGAGA CGCGGTCCCA TGAGGCTCAG
3601 GTCCAGGAGA TGAGGCAGAA ACACGCACAG GCGGTGGAGG AGCTCACAGA
3651 GCAGCTTGAG CAGTTCAAGA GGGCCAAGGC GAACCTAGAC AAGAATAAGC
3701 AGACGCTGGA GAAAGAGAAC GCAGACCTGG CCGGGGAGCT GCGGGTCTCTG
3751 GGCCAGGCCA AGCAGGAGGT GGAACATAAG AAGAAGAAGC TGGAGGCGCA
3801 GGTGCAGGAG CTGCAGTCCA AGTGCAGCGA TGGGGAGCGG GCCCCGGCGG
3851 AGCTCAATGA CAAAGTCCAC AAGCTGCAGA ATGAAGTTGA GAGCGTCACA
3901 GGGATGCTTA ACAGAGCCGA GGGGAAGGCC ATTAAGCTGG CCAAGGACGT
3951 GCGGTCCCTC AGTTCCAGC TCCAGGACAC CCAGGAGCTG CTTCAAGAAG
4001 AAACCCGGCA GAAGCTCAAC GTGTCTACGA AGCTGCGCCA GCTGGAGGAG
4051 GAGCGGAACA GCCTGCAAGA CCAGCTGGAC GAGGAGATGG AGGCCAAGCA
4101 GAACCTGGAG CGCCACATCT CCACTCTCAA CATCCAGCTC TCCGACTCGA
4151 AGAAGAAGCT GCAGGACTTT GCCAGCACCG TGGAAGCTCT GGAAGAGGGG
4201 AAGAAGAGGT TCCAGAAGGA GATCGAGAAC CTCACCCAGC AGTACGAGGA
4251 GAAGGCGGCC GCTTATGATA AACTGGAAAA GACCAAGAAC AGGCTTCAGC
4301 AGGAGCTGGA CGACCTGGTT GTTGATTTGG ACAACCAGCG GCAACTCGTG
4351 TCCAACCTGG AAAAGAAGCA GAGGAAATTT GATCAGTTGT TAGCCGAGGA
4401 GAAAAACATC TCTTCCAAAT ACGCGGATGA GAGGGACAGA GCTGAGGCAG
4451 AAGCCAGGGA GAAGGAAACC AAGGCCCTGT CCCTGGCTCG GGCCCTTGAA
4501 GAGGCCTTGG AAGCCAAAGA GGAACCTGAG CGGACCAACA AAATGCTCAA
4551 AGCCGAAATG GAAGACCTGG TCAGCTCCAA GGATGACGTG GGCAAGAACG

FIG. 1C

4601 TCCATGAGCT GGAGAAGTCC AAGCGGGCCC TGGAGACCCA GATGGAGGAG
 4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCGCTCAAG GGCCAGTTCTG
 4751 AAAGGGATCT CCAAGCCCCG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAAC TGCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCGCGTGCCT CCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAACTG GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCCG GGATCGCCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGAGG GCGGGGCGCA CAGGAACTT CGCAG

FIG. 1D

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
101 VLHNLRLERYF SGLIYTYSGL FCVVVNPHYKH LPIYSEKIVD MYKGKKRHEM
151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
201 SHKGGKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEEERD LKITDVIMAF
801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
851 LLQVTRQEEE MQAKEDELQK TKERQQAEN ELKELEQKHS QLTEEKNLLQ
901 EQLQAETELY AEAEEMRVL AAKQEELEI LHEMEARLEE EEDRGQQLQA
951 ERKKMAQQML DLEEQLEEEE AARQKLQLEK VTAEAKIKKL EDEILVMDDQ
1001 NNKLSKERKL LEERISDLTT NLABEEKAK NLTKLKNKHE SMISELEVRL
1051 KKEEKSREL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSEAA RNKAQKQKD
1151 LGEELEALKT ELEDTLSTA TQQLRAKRE QEVTVLKKAL DEETRSHEAQ
1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQTLKEN ADLAGELRVL
1251 GQAKQEVVEHK KKKLEAQVQE LQSKSDGER ARAELNDKVH KLQNEVESVT
1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQETRQKLN VSTKLRLQEE
1351 ERNSLQDQLD EEMEAKQNL RHISTLNIQL SDSKKKLQDF ASTVEALEEG
1401 KKRQKEIEN LTQQYEEKAA AYDKLEKTKN RLQQLDDLV VLDNQRQLV
1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR ABAAAREKET KALSLARALE
1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQME

FIG. 2A

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAAGC ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC TACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 3A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
 2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
 2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
 2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCG
 2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
 2801 TGGAGGCCCG CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
 2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
 2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
 2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
 3001 AACAAATAAC TATCAAAAGA ACGAAAATC CTTGAGGAGA GGATTAGTGA
 3051 CTTAACGACA AATCTTGCA GAGAGGAAGA AAAGGCCAAG AATCTTACCA

FIG. 3B

3101 AGCTGAAAAA CAAGCATGAA TCTATGATTT CAGAACTGGA AGTGCGGCTA
 3151 AAGAAGGAAG AGAAGAGCCG ACAGGAGCTG GAGAAGCTGA AACGGAAGCT
 3201 GGAGGGTGAT GCCAGCGACT TCCACGAGCA GATCGCTGAC CTCCAGGCGC
 3251 AGATCGCAGA GCTCAAGATG CAGCTGGCCA AGAAGGAGGA GGAGCTGCAG
 3301 GCGGCCCTGG CCAGGCTTGA CGATGAAATC GCTCAGAAGA ACAATGCCCT
 3351 GAAGAAGATC CGGGAGCTGG AGGGCCACAT CTCAGACCTC CAGGAGGACC
 3401 TGGACTCAGA GCGGGCCGCC AGGAACAAGG CTGAAAAGCA GAAGCGAGAC
 3451 CTCGGCGAGG AGCTGGAGGC CCTAAAGACA GAGCTGGAAG ACACACTGGA
 3501 CAGCACAGCC ACTCAGCAGG AGCTCAGGGC CAAGAGGGAG CAGGAGGTGA
 3551 CGGTGCTGAA GAAGGCCCTG GATGAAGAGA CGCGGTCCCA TGAGGCTCAG
 3601 GTCCAGGAGA TGAGGCAGAA ACACGCACAG GCGGTGGAGG AGCTCACAGA
 3651 GCAGCTTGAG CAGTTCAAGA GGGCCAAGGC GAACCTAGAC AAGAATAAGC
 3701 AGACGCTGGA GAAAGAGAAC GCAGACCTGG CCGGGAGCT GCGGGTCCTG
 3751 GGCCAGGCCA AGCAGGAGGT GGAACATAAG AAGAAGAAGC TGGAGGCGCA
 3801 GGTGCAGGAG CTGCAGTCCA AGTGCAGCGA TGGGGAGCGG GCGGGGCGG
 3851 AGCTCAATGA CAAAGTCCAC AAGCTGCAGA ATGAAGTTGA GAGCGTCACA
 3901 GGGATGCTTA ACGAGGCCGA GGGGAAGGCC ATTAAGCTGG CCAAGGACGT
 3951 GGGCTCCCTC AGTTCACAGC TCCAGGACAC CCAGGAGCTG CTTCAAGAAG
 4001 AAACCCGGCA GAAGCTCAAC GTGTCTACGA AGCTGCGCCA GCTGGAGGAG
 4051 GAGCGGAACA GCCTGCAAGA CCAGCTGGAC GAGGAGATGG AGGCCAAGCA
 4101 GAACCTGGAG CGCCACATCT CCACTCTCAA CATCCAGCTC TCCGACTCGA
 4151 AGAAGAAGCT GCAGGACTTT GCCAGCACCG TGAAGCTCT GGAAGAGGGG
 4201 AAGAAGAGGT TCCAGAAGGA GATCGAGAAC CTCACCCAGC AGTACGAGGA
 4251 GAAGGCGGCC GCTTATGATA AACTGGAAAA GACCAAGAAC AGGCTTCAGC
 4301 AGGAGCTGGA CGACCTGGTT GTTGATTTGG ACAACCAGCG GCAACTCGTG
 4351 TCCAACCTGG AAAAGAAGCA GAGGAAATTT GATCAGTTGT TAGCCGAGGA
 4401 GAAAAACATC TCTTCCAAAT ACGCGGATGA GAGGGACAGA GCTGAGGCAG
 4451 AAGCCAGGGA GAAGGAAACC AAGGCCCTGT CCCTGGCTCG GGCCCTTGAA
 4501 GAGGCCTTGG AAGCCAAAGA GGAACCTCGAG CGGACCAACA AAATGCTCAA
 4551 AGCCGAAATG GAAGACCTGG TCAGCTCCAA GGATGACGTG GGCAAGAACG
 4601 TCCATGAGCT GGAGAAGTCC AAGCGGGCCC TGGAGACCCA GATGGAGGAG

FIG. 3C

4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCGCTCAAG GGCCAGTTCG
 4751 AAAGGGATCT CCAAGCCCGG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAAC TGCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCCCGTGCCT CCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAAGTGC GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCCC GGATCGCCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGGCG AGGAAACGAG ACCTCTTTTCG TTCCTTCTAG AAGGTCTGGA
 5851 GGACGTAGAG TTATTGAAAA TGCAGATGGT TCTGAGGAGG AAACGGACAC
 5901 TCGAGACGCA GACTTCAATG GAACCAAGGC CAGTGAA

FIG. 3D

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
101 VLHNLRRERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
301 KMRSDDLLEG FNNYTFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDF
401 RSILTPRIKV GRDQVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
451 LDKTHRQGAS FLGILDIAFG EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPK
551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYELAA NAIPKGFMDG
751 KQACILMIKA LEELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
851 LLQVTRQEEE MQAKEDELQK TKERQQAEN ELKELEQKHS QLTEEKNLLQ
901 EQLQAETELY AEAEEMRVRL AAKQELEEI LHEMEARLEE EEDRGQQLQA
951 ERKKMAQOML DLEEQLEEEE AARQKLQLEK VTABAKIKKL EDEILVMDDQ
1001 NNKLSKERKL LEERISDLTT NLAESEEKAK NLTKLKNKHE SMISELEVRL
1051 KKEEKSREL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSEAA RNKAQKQKD
1151 LGEELEALKT ELEDTLDDTA TQQELRAKRE QEVTVLKKAL DEETRSHEAQ
1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQMLEKEN ADLAGELRVL
1251 GQAKQEVVEHK KKKLEAQVQE LQSKSDGER ARAELNDKVH KLQNEVESVT
1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQEBTRQKLN VSTKLRLLEE
1351 ERNSLQDQLD EEMEAKQNLE RHISTLNIQL SDSKKKLQDF ASTVEALEEG
1401 KKRQKEIEN LTQQYEEKAA AYDKLEKTKN RLQQELDDLVD VDLNQRQLV
1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR AEAEAREKET KALSLARALE
1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQMEE

FIG. 4A

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAAGC ACAACTCCTC ACGATTCTGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTTACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 5A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCG

FIG. 5B

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1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGSPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDLLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDA

FIG. 6

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCAAC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 7A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAG

FIG. 7B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRRERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGGKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYymiAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LEIDPNLYRI GQ

FIG. 8

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTGCGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 9A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCCTCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTGCGAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAG

FIG. 9B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
 801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVK

FIG. 10

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1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTCGC CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 11A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTG

FIG. 11B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGGKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYymiAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEBERD LKITDVIMAF
 801 QAMCRGYLAR KAFAKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
 851 LL

FIG. 12

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCC'TCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATT CAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGGGAGAGC TGGAAAAGCA
 651 GCTTCTACAA GCAAACCCGA TTCTGGAGGC TTTCGGCAAC GCCAAAACAG
 701 TGAAGAACGA CAACTCCTCA CGATTCTGGA AATTCATCCG CATCAACTTC
 751 GACGTCACGG GTTACATCGT GGGAGCCAAC ATTGAGACCT ATCTGCTAGA
 801 AAAATCACGG GCAATTCGCC AAGCCAGAGA CGAGAGGACA TTCCACATCT
 851 TTTACTACAT GATTGCTGGA GCCAAGGAGA AGATGAGAAG TGACTTGCTT
 901 TTGGAGGGCT TCAACAATA CACCTTCCTC TCCAATGGCT TTGTGCCCAT
 951 CCCAGCAGCC CAGGATGATG AGATGTTCCA GGAAACCGTG GAGGCCATGG
 1001 CAATCATGGG TTTCAGCGAG GAGGAGCAGC TATCCATATT GAAGGTGGTA
 1051 TCATCGGTCC TGCAGCTTGG AAATATCGTC TTCAAGAAGG AAAGAAACAC
 1101 AGACCAGGCG TCCATGCCAG ATAACACAGC TGCTCAGAAA GTTTGCCACC
 1151 TCATGGGAAT TAATGTGACA GATTTCACCA GATCCATCCT CACTCCTCGT
 1201 ATCAAGGTTG GGCGAGATGT GGTACAGAAA GCTCAGACAA AAGAACAGGC
 1251 TGACTTTGCT GTAGAGGCTT TGGCCAAGGC AACATATGAG CGCCTTTTCC
 1301 GCTGGATACT CACCCGCGTG AACAAAGCCC TGGACAAGAC CCATCGGCAA
 1351 GGGGCTTCCT TCCTGGGGAT CCTGGATATA GCTGGATTG AGATCTTTGA
 1401 GGTGAACTCC TTCGAGCAGC TGTGCATCAA CTACACCAAC GAGAAGCTGC
 1451 AGCAGCTCTT CAACCACACC ATGTTTCATCC TGGAGCAGGA GGAGTACCAG
 1501 CGCGAGGGCA TCGAGTGGA CTTTCATCGAC TTTGGGCTGG ACCTACAGCC

FIG. 13A

1551 CTGCATCGAG CTCATCGAGC GACCGAACAA CCTCCAGGT GTGCTGGCCC
 1601 TGCTGGACGA GGAATGCTGG TTCCCCAAAG CCACGGACAA GTCTTTCGTG
 1651 GAGAAGCTGT GCACGGAGCA GGGCAGCCAC CCCAAGTTCC AGAAGCCCAA
 1701 GCAGCTCAAG GACAAGACTG AGTTCTCCAT CATCCATTAT GCTGGGAAGG
 1751 TGGACTATAA TGCGAGTGCC TGGCTGACCA AGAATATGGA CCCGCTGAAT
 1801 GACAACGTGA CTTCCCTGCT CAATGCCTCC TCCGACAAGT TTGTGGCCGA
 1851 CCTGTGGAAG GACGTGGACC GCATCGTGGG CCTGGACCAG ATGGCCAAGA
 1901 TGACGGAGAG CTCGCTGCCC AGCGCCTCCA AGACCAAGAA GGGCATGTTC
 1951 CGCACAGTGG GGCAGCTGTA CAAGGAGCAG CTGGGCAAGC TGATGACCAC
 2001 GCTACGCAAC ACCACGCCCCA ACTTCGTGCG CTGCATCATC CCCAACCACG
 2051 AGAAGAGGTC CGGCAAGCTG GATGCGTTCC TGGTGCTGGA GCAGCTGCGG
 2101 TGCAATGGGG TGCTGGAAGG CATTCGCATC TGCCGGCAGG GCTTCCCCAA
 2151 CCGGATCGTC TTCCAGGAGT TCCGCCAACG CTACGAGATC CTGGCGGCGA
 2201 ATGCCATCCC CAAAGGCTTC ATGGACGGGA AGCAGGCCTG CATTCTCATG
 2251 ATCAAAGCCC TGGAAC TTGA CCCCAACTTA TACAGGATAG GGCAGAGCAA
 2301 AATCTTCTTC CGAACTGGCG TCCTGGCCCA CCTAGAGGAG GAGCGAGATT
 2351 TGAAGATCAC CGATGTCATC ATGGCCTTCC AGGCGATGTG TCGTGGCTAC
 2401 TTGGCCAGAA AGGCTTTTGC CAAGAGGCAG CAGCAGCTGA CCGCCATGAA
 2451 GGTGATTCAG AGGAAGTGC CCGCCTACCT CAAGCTGCGG AACTGGCAGT
 2501 GGTGGAGGCT TTTCACCAA GTGAAGCCAC TGCTG

FIG. 13B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDLLLEG FNNTFSLNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDF
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWF
 551 ATDKSFVEKL CTEQGSHPKF QPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDA

FIG. 14